

IN THE CLAIMS

The currently pending claims are as follows:

1. (Original) A method comprising periodically adjusting an access point output power in a wireless network to reduce potential interference while communicating with associated mobile stations.
2. (Original) The method of claim 1 wherein periodically adjusting an access point output power comprises determining a path loss for each associated mobile station.
3. (Original) The method of claim 1 further comprising adjusting the access point output power when a mobile station associates.
4. (Original) The method of claim 3 further comprising adjusting the access point output power when the mobile station disassociates.
5. (Original) The method of claim 1 further comprising transmitting beacons at a full access point output power.
6. (Original) A method comprising:
transmitting a beacon frame in a wireless network;
receiving a signal from a mobile station; and
adjusting an access point output power to reliably communicate with the mobile station.
7. (Original) The method of claim 6 wherein adjusting an access point output power comprises reducing the output power of frames other than beacon frames.
8. (Original) The method of claim 7 wherein adjusting an access point output power further comprises transmitting beacon frames at a maximum power.

9. (Original) The method of claim 6 wherein adjusting an access point output power comprises calculating a first path loss to the mobile station.
10. (Original) The method of claim 9 wherein adjusting an access point output power further comprises setting the output power to overcome the path loss.
11. (Original) The method of claim 9 further comprising receiving a signal from a second mobile station.
12. (Original) The method of claim 11 further comprising calculating a second path loss to the second mobile station.
13. (Original) The method of claim 12 further comprising adjusting the output power to overcome a greater of the first path loss and the second path loss.
14. (Original) A method comprising:
transmitting a beacon frame from an access point at a full power level; and
transmitting frames other than beacon frames from the access point at less than the full power level.
15. (Original) The method of claim 14 wherein transmitting frames other than beacon frames comprises transmitting at a power level high enough to overcome a path loss to an associated mobile station.
16. (Original) The method of claim 15 further comprising adjusting the power level when the associated mobile station disassociates.
17. (Original) The method of claim 15 further comprising adjusting the power level when another mobile station associates.

18. (Original) The method of claim 14 further comprising periodically readjusting the power level.
19. (Original) The method of claim 18 wherein periodically adjusting the power level comprises determining a path loss to an associated mobile station.
20. (Original) An apparatus including a medium to hold machine-accessible instructions that when accessed result in a machine performing:
transmitting a beacon frame from an access point at a full power level; and
transmitting frames other than beacon frames from the access point at less than the full power level.
21. (Original) The apparatus of claim 20 wherein transmitting frames other than beacon frames comprises transmitting at a power level high enough to overcome a path loss to an associated mobile station.
22. (Original) The apparatus of claim 21 wherein machine-accessible instructions, when accessed, result in the machine further performing adjusting the power level when the associated mobile station disassociates.
23. (Original) The apparatus of claim 21 wherein machine-accessible instructions, when accessed, result in the machine further performing adjusting the power level when another mobile station associates.
24. (Original) An electronic system comprising:
an antenna;
a variable output power radio interface coupled to the antenna;
a processing apparatus coupled to the variable output power radio interface to periodically adjust an output power to reduce potential interference while communicating with associated mobile stations; and

an Ethernet interface coupled to the processing apparatus.

25. (Original) The electronic system of claim 24 further comprising an apparatus including a medium to hold machine-accessible instructions that when accessed result in the processing apparatus performing:

transmitting a beacon frame at a full power level; and

transmitting frames other than beacon frames at less than the full power level.

26. (Original) The electronic system of claim 25 wherein transmitting frames other than beacon frames comprises transmitting at a power level high enough to overcome a path loss to an associated mobile station.